

INVESTIGATOR'S ANNUAL REPORT

National Park Service

All or some of the information provided may be available to the public

Reporting Year: 1997	Park: Shenandoah NP						
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Name: Dr. Donald D. Davis	Phone: n/a	Email: n/a					
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Permit#: SHEN1997AUME							
Park-assigned Study Id. #: unknown							
Project Title: Impact Of Ambient Ozone On Physiological, Visual And Growth Responses Of Sensitive Eastern Hardwood Tree Species Under Natural And Varying Conditions. (N-215)							
Permit Start Date: Jan 01, 1998	Permit Expiration Date Jan 01, 1998						
Study Start Date: Jan 01, 1996	Study End Date Jan 01, 1999						
Study Status: Completed							
Activity Type: Research							
Subject/Discipline: Air Quality							
Objectives: To determine whether radial growth or the relationship between ring-width variation and climate differ in relation to foliar O3 symptom severity within and among natural populations of three O3-sensitive hardwood tree species (black cherry, white ash and yellow-poplar).							
Findings and Status: Pairs of increment cores were collected from previously studied and tagged trees at three sites in the Shenandoah National Park during July, 1997. Trees cored by site and species are as follows. Dickey Ridge: 29 white ash, 14 black cherry, 27 yellow-poplar; Big Meadows: 23 white ash, 56 black cherry, 23 yellow-poplar; Sawmill Run: 23 white ash, 17 black cherry, 30 yellow-poplar. The total core collection nominally represents 242 trees and 484 cores. Field measurements taken with respect to each cored tree include species, tree number, dbh (diameter at breast height, 1.3m), crown class, length of sapwood on each core, total tree height, live crown length and average crown width from two measurements, slope aspect and slope steepness, and crown vigor rating. The cores are presently being surfaced to obtain the necessary ring boundary definition that will enable crossdating to ensure assignment of the correct year to each ring, and subsequent ring width measurement.							
For this study, were one or more specimens collected and removed from the park but not destroyed during analyses? No							
Funding provided this reporting year by NPS: 0	Funding provided this reporting year by other sources: 194000						
Fill out the following ONLY IF the National Park Service supported this project in this reporting year by providing money to a university or college							

Full name of college or university: n/a	Annual funding provided by NPS to university or college this reporting year: 0
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